```
FILE 'HOME' ENTERED AT 14:31:42 ON 06 MAY 2008

=> index bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
       AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
       CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,
       DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 14:32:23 ON 06 MAY 2008

69 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s array### (s) (porous or pore# or channel###)
          2   FILE ADISCTI
          5   FILE ADISINSIGHT
        110   FILE AGRICOLA
        465   FILE ANABSTR
        241   FILE ANTE
         65   FILE AQUALINE
        560   FILE AQUASCI
        541   FILE BIOENG
       1033   FILE BIOSIS
        612   FILE BIOTECHABS
        612   FILE BIOTECHDS
        315   FILE BIOTECHNO
        269   FILE CABA
       6824   FILE CAPLUS
        243   FILE CEABA-VTB
         17   FILE CIN
         64   FILE CONFSCI
          6   FILE CROPU
         17   FILE DDFU
       3155   FILE DGENE
       1326   FILE DISSABS
         46   FILE DRUGU
         29   FILE EMBAL
       1093   FILE EMBASE
       1344   FILE ESBIOBASE
         19   FILE FROSTI
         43   FILE FSTA
  34 FILES SEARCHED...
         71   FILE GENBANK
         15   FILE HEALSAFE
      21920   FILE IFIPAT
          3   FILE IMSDRUGNEWS
          3   FILE IMSRESEARCH
         13   FILE KOSMET
        739   FILE LIFESCI
       1286   FILE MEDLINE
       1530   FILE NTIS
          1   FILE NUTRACEUT
        249   FILE OCEAN
       6177   FILE PASCAL
          1   FILE PHAR
          1   FILE PHARMAML
```

```
         42   FILE PHIN
      13166   FILE PROMT
         70   FILE RDISCLOSURE
       5064   FILE SCISEARCH
        372   FILE TOXCENTER
        185   FILE USGENE
      77250   FILE USPATFULL
       2124   FILE USPATOLD
      16886   FILE USPAT2
          4   FILE VETU
        194   FILE WATER
       9112   FILE WPIDS
  67 FILES SEARCHED...
        236   FILE WPIFV
       9112   FILE WPINDEX

  55 FILES HAVE ONE OR MORE ANSWERS,   69 FILES SEARCHED IN STNINDEX

L1   QUE ARRAY### (S) (POROUS OR PORE# OR CHANNEL###)

=> s L1 (s) (detect### or assay### or measur### or test### or screen###)
          1   FILE ADISCTI
          2   FILE ADISINSIGHT
         51   FILE AGRICOLA
        361   FILE ANABSTR
         63   FILE ANTE
         24   FILE AQUALINE
        218   FILE AQUASCI
        296   FILE BIOENG
        159   FILE BIOSIS
        471   FILE BIOTECHABS
        471   FILE BIOTECHDS
        130   FILE BIOTECHNO
  13 FILES SEARCHED...
        119   FILE CABA
        862   FILE CAPLUS
         66   FILE CEABA-VTB
          1   FILE CIN
          7   FILE CONFSCI
          6   FILE CROPU
         10   FILE DDFU
       2837   FILE DGENE
  23 FILES SEARCHED...
        487   FILE DISSABS
         25   FILE DRUGU
          3   FILE EMBAL
        140   FILE EMBASE
        553   FILE ESBIOBASE
          7   FILE FROSTI
         14   FILE FSTA
          6   FILE GENBANK
          5   FILE HEALSAFE
       4570   FILE IFIPAT
  37 FILES SEARCHED...
          3   FILE IMSDRUGNEWS
          3   FILE IMSRESEARCH
          5   FILE KOSMET
        281   FILE LIFESCI
        141   FILE MEDLINE
        754   FILE NTIS
         96   FILE OCEAN
```

```
     2051   FILE PASCAL
  47 FILES SEARCHED...
        1   FILE PHAR
       13   FILE PHIN
     1249   FILE PROMT
       15   FILE RDISCLOSURE
      526   FILE SCISEARCH
       58   FILE TOXCENTER
      141   FILE USGENE
    18363   FILE USPATFULL
  61 FILES SEARCHED...
      373   FILE USPATOLD
     3919   FILE USPAT2
        4   FILE VETU
       78   FILE WATER
     1470   FILE WPIDS
       53   FILE WPIFV
     1470   FILE WPINDEX

  53 FILES HAVE ONE OR MORE ANSWERS,   69 FILES SEARCHED IN STNINDEX

L2   QUE L1 (S) (DETECT### OR ASSAY### OR MEASUR### OR TEST### OR SCREEN###)

=> s L2 (s) immobiliz###
        3   FILE AGRICOLA
       24   FILE ANABSTR
        1   FILE ANTE
        1   FILE AQUASCI
       17   FILE BIOENG
        1   FILE BIOSIS
      114   FILE BIOTECHABS
      114   FILE BIOTECHDS
       14   FILE BIOTECHNO
  13 FILES SEARCHED...
        5   FILE CABA
       10   FILE CAPLUS
        2   FILE CEABA-VTB
      124   FILE DGENE
  23 FILES SEARCHED...
        7   FILE DISSABS
        1   FILE EMBASE
       23   FILE ESBIOBASE
        2   FILE FROSTI
        4   FILE FSTA
      114   FILE IFIPAT
        2   FILE IMSDRUGNEWS
        1   FILE IMSRESEARCH
       14   FILE LIFESCI
  42 FILES SEARCHED...
        2   FILE NTIS
        1   FILE OCEAN
       33   FILE PASCAL
  47 FILES SEARCHED...
        4   FILE PROMT
        1   FILE SCISEARCH
        1   FILE TOXCENTER
      114   FILE USGENE
      513   FILE USPATFULL
       84   FILE USPAT2
        1   FILE WATER
  66 FILES SEARCHED...
```

```
         61   FILE WPIDS
          1   FILE WPIFV
         61   FILE WPINDEX

  35 FILES HAVE ONE OR MORE ANSWERS,   69 FILES SEARCHED IN STNINDEX

L3   QUE L2 (S) IMMOBILIZ###

=> s L3 (s) cell####
          5   FILE ANABSTR
          1   FILE AQUASCI
          4   FILE BIOENG
         55   FILE BIOTECHABS
         55   FILE BIOTECHDS
  12 FILES SEARCHED...
          5   FILE BIOTECHNO
          2   FILE CABA
          1   FILE CAPLUS
  19 FILES SEARCHED...
         18   FILE DGENE
  23 FILES SEARCHED...
          1   FILE DISSABS
         10   FILE ESBIOBASE
  30 FILES SEARCHED...
          1   FILE FROSTI
          1   FILE FSTA
         38   FILE IFIPAT
          3   FILE LIFESCI
          1   FILE OCEAN
          7   FILE PASCAL
  47 FILES SEARCHED...
          1   FILE PROMT
        125   FILE USPATFULL
         19   FILE USPAT2
  63 FILES SEARCHED...
         24   FILE WPIDS
          1   FILE WPIFV
         24   FILE WPINDEX

  23 FILES HAVE ONE OR MORE ANSWERS,   69 FILES SEARCHED IN STNINDEX

L4   QUE L3 (S) CELL####

=> s L4 and ((meta### (2a) oxide) or piezo))
UNMATCHED RIGHT PARENTHESIS 'PIEZO))'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s L4 and ((meta### (2a) oxide) or piezo)
          5   FILE BIOTECHABS
          5   FILE BIOTECHDS
  12 FILES SEARCHED...
  19 FILES SEARCHED...
  23 FILES SEARCHED...
  30 FILES SEARCHED...
          2   FILE IFIPAT
  44 FILES SEARCHED...
  47 FILES SEARCHED...
         35   FILE USPATFULL
  61 FILES SEARCHED...
          6   FILE USPAT2
```

```
          5   FILE WPIDS
          5   FILE WPINDEX

   7 FILES HAVE ONE OR MORE ANSWERS,   69 FILES SEARCHED IN STNINDEX

L5   QUE L4 AND ((META### (2A) OXIDE) OR PIEZO)

=> d rank
F1          35   USPATFULL
F2           6   USPAT2
F3           5   BIOTECHABS
F4           5   BIOTECHDS
F5           5   WPIDS
F6           5   WPINDEX
F7           2   IFIPAT


=> fil f1-f7
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    16.90      17.11

FILE 'USPATFULL' ENTERED AT 14:48:07 ON 06 MAY 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 14:48:07 ON 06 MAY 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'BIOTECHDS' ENTERED AT 14:48:07 ON 06 MAY 2008
COPYRIGHT (C) 2008 THE THOMSON CORPORATION

FILE 'WPIDS' ENTERED AT 14:48:07 ON 06 MAY 2008
COPYRIGHT (C) 2008 THE THOMSON CORPORATION

FILE 'WPINDEX' ACCESS NOT AUTHORIZED

FILE 'IFIPAT' ENTERED AT 14:48:07 ON 06 MAY 2008
COPYRIGHT (C) 2008 IFI CLAIMS(R) Patent Services (IFI)

=> s L5
L6           53 L5

=> dup rem L6
PROCESSING COMPLETED FOR L6
L7            43 DUP REM L6 (10 DUPLICATES REMOVED)

=> s L7 not py>2003
L8           11 L7 NOT PY>2003

=> d L8 ibib abs 1-11

L8   ANSWER 1 OF 11  USPATFULL on STN
ACCESSION NUMBER:       2003:302797  USPATFULL <<LOGINID::20080506>>
TITLE:                  Method of preparing a sensor array
INVENTOR(S):            McDevitt, John T., Travis, TX, United States
                        Anslyn, Eric V., Austin, TX, United States
                        Shear, Jason B., Austin, TX, United States
                        Neikirk, Dean P., Travis, TX, United States
PATENT ASSIGNEE(S):     Board of Regents, The University of Texas Systems,
```

Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6649403	B1	20031118
APPLICATION INFO.:	US 2001-775353		20010131 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179369P	20000131 (60)
	US 2000-179424P	20000131 (60)
	US 2000-179294P	20000131 (60)
	US 2000-179380P	20000131 (60)
	US 2000-179292P	20000131 (60)
	US 2000-179293P	20000131 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Ponnaluri, Padmashri
ASSISTANT EXAMINER: Tran, My Chau
LEGAL REPRESENTATIVE: Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C., Meyertons, Eric B.
NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 160 Drawing Figure(s); 87 Drawing Page(s)
LINE COUNT: 7309
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A system for the rapid characterization of multi-analyte fluids, in one embodiment, includes a light source, a sensor array, and a detector. The sensor array is formed from a supporting member into which a plurality of cavities may be formed. A series of chemically sensitive particles are, in one embodiment positioned within the cavities. The particles may be configured to produce a signal when a receptor coupled to the particle interacts with the analyte. Using pattern recognition techniques, the analytes within a multi-analyte fluid may be characterized.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 2 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2003:209960 USPATFULL <<LOGINID::20080506>>
TITLE: Detection system based on an analyte reactive particle
INVENTOR(S): McDevitt, John T., Austin, TX, United States
Anslyn, Eric V., Austin, TX, United States
Shear, Jason B., Austin, TX, United States
Neikirk, Dean P., Austin, TX, United States
PATENT ASSIGNEE(S): The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6602702	B1	20030805
APPLICATION INFO.:	US 2000-616355		20000714 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-144436P	19990716 (60)
	US 1999-144435P	19990716 (60)
	US 1999-144126P	19990716 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Beisner, William H.

LEGAL REPRESENTATIVE: Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C., Meyertons, Eric B.
NUMBER OF CLAIMS: 61
EXEMPLARY CLAIM: 1,32
NUMBER OF DRAWINGS: 132 Drawing Figure(s); 69 Drawing Page(s)
LINE COUNT: 5110
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A system for the rapid characterization of multi-analyte fluids, in one embodiment, includes a light source, a sensor array, and a detector. The sensor array is formed from a supporting member into which a plurality of cavities may be formed. A series of chemically sensitive particles are, in one embodiment positioned within the cavities. The particles may be configured to produce a signal when a receptor coupled to the particle interacts with the analyte. Using pattern recognition techniques, the analytes within a multi-analyte fluid may be characterized.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 3 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2003:183998 USPATFULL <<LOGINID::20080506>>
TITLE: General signaling protocol for chemical receptors in immobilized matrices
INVENTOR(S): McDevitt, John T., Austin, TX, United States
Anslyn, Eric V., Austin, TX, United States
Shear, Jason B., Austin, TX, United States
Neikirk, Dean P., Austin, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6589779	B1	20030708	
APPLICATION INFO.:	US 2000-616482		20000714	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-144436P	19990716 (60)
	US 1999-144435P	19990716 (60)
	US 1999-144126P	19990716 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Redding, David A.
LEGAL REPRESENTATIVE: Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C., Meyertons, Eric B.
NUMBER OF CLAIMS: 45
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 132 Drawing Figure(s); 69 Drawing Page(s)
LINE COUNT: 5023
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A system for the rapid characterization of multi-analyte fluids, in one embodiment, includes a light source, a sensor array, and a detector. The sensor array is formed from a supporting member into which a plurality of cavities may be formed. A series of chemically sensitive particles are, in one embodiment positioned within the cavities. The particles may be configured to produce a signal when a receptor coupled to the particle interacts with the analyte. Using pattern recognition techniques, the analytes within a multi-analyte fluid may be characterized.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 4 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2003:143469 USPATFULL <<LOGINID::20080506>>
TITLE: Arrangement for surface plasmon resonance spectroscopy
INVENTOR(S): Hoppe, Lutz, Jena, GERMANY, FEDERAL REPUBLIC OF
Pfeifer, Peter, Jena, GERMANY, FEDERAL REPUBLIC OF
Schwotzer, Gunter, Dorndorf-Steudnitz, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): Institut Fuer Physikalische Hochtechnolgolie e.V., Jena, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)
ANALYTIK Jena GmbH Analysenmessgeraete und Laboreinrichtungen, Jena, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6570657	B1	20030527	
	WO 2000022419		20000420	
APPLICATION INFO.:	US 2000-600669		20000720	(9)
	WO 1999-EP2353		19990406	

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1998-19814811	19980402

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Rosenberger, Richard A.
LEGAL REPRESENTATIVE: Jordan and Hamburg LLP
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 491
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Surface plasmon resonance spectroscopy device includes an optical prism with a sample cell associated therewith and at least two sample detection areas that are provided with a thin metal coating selected for implementation of the SPR method and which contains, at least partially, surface-immobilized areas. Light is conducted via an optic fiber, collimated by a collimator with an aperture to a base surface of the prism, applied to an entrance of the optical prism. A multi adaptable diaphragm is provided between the collimator and the entrance surface. The diaphragm defines a path to the prism in a chronologically successive manner. Switching states are allocated to spectra corresponding to the switching states, whereby the spectra are obtained by detecting the light that leaves the prism through another collimator connected to another optic fiber applied to a polychromator wherein spectrally decomposed light is detected and evaluated by an evaluation and control unit.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 5 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2003:93063 USPATFULL <<LOGINID::20080506>>
TITLE: Method and system for collecting and transmitting chemical information
INVENTOR(S): McDevitt, John T., Austin, TX, UNITED STATES
Anslyn, Eric V., Austin, TX, UNITED STATES
Shear, Jason B., Austin, TX, UNITED STATES
Neikirk, Dean P., Austin, TX, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003064422	A1	20030403	
APPLICATION INFO.:	US 2001-775340	A1	20010131	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179369P	20000131 (60)
	US 2000-179424P	20000131 (60)
	US 2000-179294P	20000131 (60)
	US 2000-179380P	20000131 (60)
	US 2000-179292P	20000131 (60)
	US 2000-179293P	20000131 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ERIC B. MEYERTONS, CONLEY, ROSE & TAYON, P.C., P.O. BOX 398, AUSTIN, TX, 78767-0398
NUMBER OF CLAIMS: 415
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 87 Drawing Page(s)
LINE COUNT: 9258
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A system for the rapid characterization of multi-analyte fluids, in one embodiment, includes a light source, a sensor array, and a detector. The sensor array is formed from a supporting member into which a plurality of cavities may be formed. A series of chemically sensitive particles are, in one embodiment positioned within the cavities. The particles may be configured to produce a signal when a receptor coupled to the particle interacts with the analyte. Using pattern recognition techniques, the analytes within a multi-analyte fluid may be characterized.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 6 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2003:37709 USPATFULL <<LOGINID::20080506>>
TITLE: Device for the analysis of chemical or biochemical specimens, comparative analysis, and associated analysis process
INVENTOR(S): Geli, Francois, Lyon, FRANCE

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003027354	A1	20030206	
APPLICATION INFO.:	US 2002-164423	A1	20020610	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2001-7537	20010608

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: YOUNG & THOMPSON, 745 SOUTH 23RD STREET 2ND FLOOR, ARLINGTON, VA, 22202
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Page(s)
LINE COUNT: 3286
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A device for the chemical or biochemical analysis of biological or chemical samples, notably for a comparative analysis of at least two samples, comprises multiple fractionation micro-columns 2 for the

fractionation of sample components, each fractionation micro-column 2 comprising at least a micro-channel 3 segment fitted with intermediate separation means, the micro-channel 3 segment comprising an inlet 3a for the introduction of a sample-enriched mobile phase and an outlet 3b for the evacuation of the fluids and situated at a teminal extremity. The device comprises also capture fluidic means 7 of the fractionated products which are located at a terminal element 9 of each fractionation micro-columns 2 and upstream from the evacuation outlet 3b, capture micro-channels 8 which are used to collect the captured fractionation products and groups of selective micro-cantilevers 13 which are associated with the fractionation micro-columns 2 and situated downstream from the capture micro-channels 8, a micro-cantilever 13 being fitted with detection means which are associated with analytical means.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 7 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:343930 USPATFULL <<LOGINID::20080506>>
TITLE: Cell arrays and the uses thereof
INVENTOR(S): Li, Ronghao, La Jolla, CA, UNITED STATES
Mather, Jennie P., Millbrae, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002197656	A1	20021226
APPLICATION INFO.:	US 2002-192273	A1	20020709 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2001-947238, filed on 5 Sep 2001, PENDING Continuation-in-part of Ser. No. US 1999-466011, filed on 17 Dec 1999, GRANTED, Pat. No. US 6406840

	NUMBER	DATE
PRIORITY INFORMATION:	WO 2000-US34010	20001215

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Terri M. Shieh-Newton, Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA, 94304-1018
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 2171
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides cell arrays comprising a plurality of tube segments containing populations of immobilized cells. The arrays are particularly useful for conducting comparative cell-based analyses. Specifically, the subject arrays allow protein-protein interactions to be simultaneously studied in multiple types of cells. The arrays also support simultaneous detection of the differential expression of a target polynucleotide in a multiplicity of cell types derived from multiple subjects. The subject arrays further permit high throughput screening for candidate modulators of a signal transduction pathway of interest. Further provided by the invention are kits, computer-implemented methods and systems for conducting the comparative cell-based analyses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 8 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:343896 USPATFULL <<LOGINID::20080506>>

TITLE: Method and apparatus for the confinement of materials in a micromachined chemical sensor array

INVENTOR(S): McDevitt, John T., Austin, TX, UNITED STATES
Anslyn, Eric V., Austin, TX, UNITED STATES
Shear, Jason B., Austin, TX, UNITED STATES
Neikirk, Dean P., Austin, TX, UNITED STATES
Park, Byunghwa, Austin, TX, UNITED STATES
Park, Yoon Sok, Austin, TX, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002197622	A1	20021226	
APPLICATION INFO.:	US 2002-72800	A1	20020131	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-265776P	20010131 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ERIC B. MEYERTONS, CONLEY, ROSE & TAYON, P.C., P.O. BOX 398, AUSTIN, TX, 78767-0398
NUMBER OF CLAIMS: 459
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 92 Drawing Page(s)
LINE COUNT: 9465
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A system for the rapid characterization of multi-analyte fluids, in one embodiment, includes a light source, a sensor array, and a detector. The sensor array is formed from a supporting member into which a plurality of cavities may be formed. A series of chemically sensitive particles are, in one embodiment positioned within the cavities. The particles may produce a signal when a receptor coupled to the particle interacts with the analyte. Using pattern recognition techniques, the analytes within a multi-analyte fluid may be characterized. In an embodiment, each cavity of the plurality of cavities is designed to capture and contain a specific size particle. Flexible projections may be positioned over each of the cavities to provide retention of the particles in the cavities.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 9 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:287500 USPATFULL <<LOGINID::20080506>>
TITLE: Magnetic-based placement and retention of sensor elements in a sensor array

INVENTOR(S): McDevitt, John T., Austin, TX, UNITED STATES
Anslyn, Eric V., Austin, TX, UNITED STATES
Shear, Jason B., Austin, TX, UNITED STATES
Neikirk, Dean P., Austin, TX, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002160363	A1	20021031	
APPLICATION INFO.:	US 2001-775342	A1	20010131	(9)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ERIC B. MEYERTONS, CONLEY, ROSE & TAYON, P.C., P.O. BOX 398, AUSTIN, TX, 78767-0398
NUMBER OF CLAIMS: 377
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 88 Drawing Page(s)
LINE COUNT: 9016

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A system for the rapid characterization of multi-analyte fluids, in one embodiment, includes a light source, a sensor array, and a detector. The sensor array is formed from a supporting member into which a plurality of cavities may be formed. A series of chemically sensitive particles are, in one embodiment positioned within the cavities. The particles may be configured to produce a signal when a receptor coupled to the particle interacts with the analyte. Using pattern recognition techniques, the analytes within a multi-analyte fluid may be characterized.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 10 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2002:144066 USPATFULL <<LOGINID::20080506>>

TITLE: Cell arrays and the uses thereof

INVENTOR(S): Li, Ronghao, La Jolla, CA, United States
Mather, Jennie P., Millbrae, CA, United States

PATENT ASSIGNEE(S): bioMosaic Systems, Inc., South San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6406840	B1	20020618
APPLICATION INFO.:	US 1999-466011		19991217 (9)

DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Brusca, John S.

LEGAL REPRESENTATIVE: Morrison & Foerster LLP

NUMBER OF CLAIMS: 24

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT: 1942

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides cell arrays comprising a plurality of tubes containing populations of cells that are immobilized therein. The arrays are particularly useful for conducting comparative cell-based analyses. Specifically, the subject arrays allow protein-protein interactions to be studied in multiple types of cell simultaneously. The arrays also support simultaneous detection of the differential expression of a target polynucleotide in a multiplicity of cell types derived from multiple subjects. The subject arrays further permit high throughput screening for candidate modulators of a signal transduction pathway of interest. Further provided by the invention are kits, computer-implemented methods and systems for conducting the comparative cell-based analyses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 11 OF 11 USPATFULL on STN

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TITLE: Vascularized perfused microtissue/micro-organ arrays

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AB Systems including (1) a micromatrix and perfusion assembly suitable for seeding and attachment of cells within the matrix and for morphogenesis of seeded cells into complex, hierarchical tissue or organ structures, wherein the matrix includes channels or vessels through which culture medium, oxygen, or other nutrient or body fluids can be perfused while controlling gradients of nutrients and exogenous metabolites throughout the perfusion path independently of perfusion rate, and (2) sensor means for detecting changes in either cells within the matrix or in materials exposed to the cells, have been developed. Methods for making the micromatrices include micromachining, micromolding, embossing, laser drilling, and electro deposition machining. Cells can be of one or more types, either differentiated or undifferentiated. In a preferred embodiment, the matrix is seeded with a mixture of cells including endothelial cells which will line the channels to form "blood vessels", and at least one type of parenchymal cells, such as hepatocytes, pancreatic cells, or other organ cells. The system can be used to screen materials for an effect on the cells, for an effect of the cells on the materials (for example, in a manner equivalent to tissue metabolism of a drug), or to test a material on a biological that must first infect cells or tissues, such as viruses. The apparatus also can be used to provide a physiological environment for expansion of stem cells, or for enabling gene therapy in vitro.

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